

WHAT IS CLAIMED IS:

1. An image scanning apparatus comprising:
  - first feeding means for feeding a document;
  - second feeding means disposed downstream from the first feeding means in a feeding direction for feeding the document;
  - first driving means for driving the first feeding means;
  - second driving means for driving the second feeding means;
  - image scanning means for scanning an image of the document which passes a scanning position provided between the first feeding means and the second feeding means; and
  - speed controlling means for controlling feed speeds of the first feeding means and the second feeding means by controlling the first driving means and the second driving means;
  - wherein the speed controlling means controls the first driving means and the second driving means such that the feed speed of the second feeding means when a front end of the document is charged to the second feeding means becomes faster than the feed speed of the second feeding means when the document is fed by both of the first feeding means and the second feeding means after the front end of the document has been charged to the second feeding

means.

2. The image scanning apparatus according to Claim 1, wherein the speed controlling means controls the first driving means and the second driving means such that when the document is fed by both of the first feeding means and the second feeding means, the feed speed of the second feeding means becomes faster than the feed speed of the first feeding means.

3. The image scanning apparatus according to Claim 2, wherein the speed controlling means controls the second driving means such that the feed speed of the second feeding means when the document is fed only by the second feeding means and the feed speed of the first feeding means when the document is fed by both of the first feeding means and the second feeding means become equal to each other.

4. The image scanning apparatus according to Claim 1, wherein the speed controlling means controls to switch the feed speed of the first feeding means and/or the feed speed of the second feeding means in accordance with a kind of the document.

5. An image scanning apparatus comprising:  
first feeding means for feeding a document;  
second feeding means disposed downstream from the first feeding means in a feeding direction for

feeding the document;

first driving means for driving the first feeding means;

second driving means for driving the second feeding means;

image scanning means for scanning an image of the document which passes a scanning position provided between the first feeding means and the second feeding means; and

speed controlling means for controlling feed speeds of the first feeding means and the second feeding means by controlling the first driving means and the second driving means;

wherein the speed controlling means controls the first driving means and the second driving means such that a ratio of the feed speed of the first feeding means to the feed speed of the second feeding means is made to differ in accordance with a scanning speed of the document by the image scanning means.

6. The image scanning apparatus according to Claim 5, wherein the speed controlling means controls the first driving means and the second driving means such that the feed speed of the second feeding means is faster than the feed speed of the first feeding means and the ratio of the feed speed of the first feeding means to the feed speed of the

second feeding means is made to differ in accordance with the scanning speed.

7. The image scanning apparatus according to Claim 6, wherein when the scanning speed is fast, the speed controlling means controls the first driving means and the second driving means such that the ratio of the feed speed of the first feeding means to the feed speed of the second feeding means becomes larger than the ratio when the scanning speed is slow.

8. An image scanning apparatus comprising:

- first feeding means for feeding a document;
- second feeding means disposed downstream from the first feeding means in a feeding direction for feeding the document;
- first driving means for driving the first feeding means;
- second driving means for driving the second feeding means;
- image scanning means for scanning an image of the document which passes a scanning position provided between the first feeding means and the second feeding means; and
- speed controlling means for controlling feed speeds of the first feeding means and the second feeding means by controlling the first driving means and the second driving means;

wherein the speed controlling means controls the first driving means and the second driving means such that the feed speed of the second feeding means becomes faster than the feed speed of the first feeding means and the speed controlling means controls to switch the feed speed of the first feeding means and/or the feed speed of the second feeding means in accordance with a kind of the document.

9. The image scanning apparatus according to Claim 8, wherein when a thick document is fed, the speed controlling means controls the first driving means and the second driving means such that a difference between the feed speeds of the first feeding means and the second feeding means becomes larger than the difference when a thin document is fed.